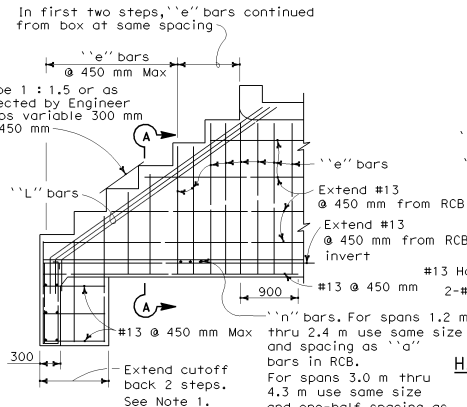


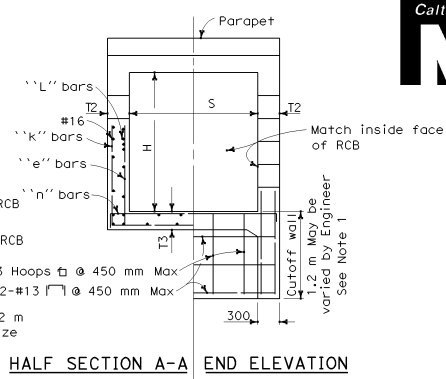
LONGITUDINAL SECTION

Showing reinforcement in outside face



LONGITUDINAL SECTION

Showing reinforcement in inside face

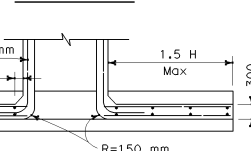


HALF SECTION A-A END ELEVATION

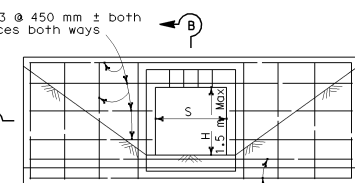
Dimensions S and T₃ to be same as adjacent RCB.T₂ = Same as adjacent RCB (200 mm Min).

Extend all longitudinal bars in box walls 600 mm into wingwalls.

SECTION B-B



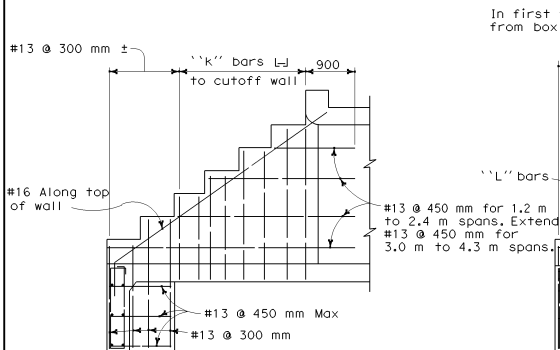
SECTION C-C



ELEVATION

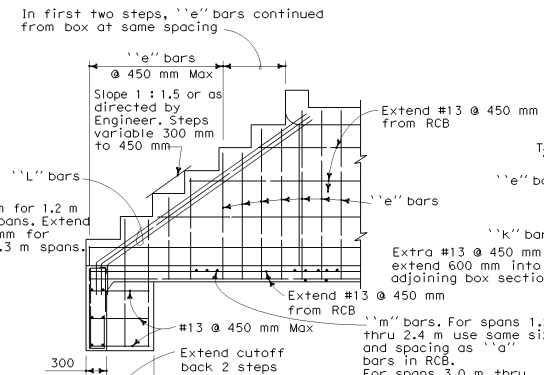
TYPE 'D' STRAIGHT WINGWALL

Details similar for multiple span boxes. For Parapet Details not shown see Standard Plan D82.



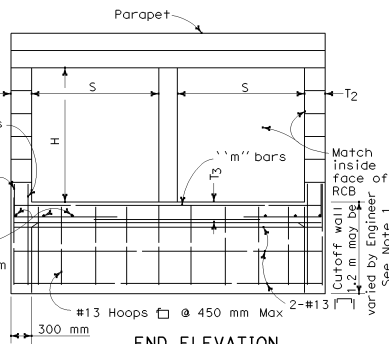
LONGITUDINAL SECTION

Showing reinforcement in outside face



LONGITUDINAL SECTION

Showing reinforcement in inside face



END ELEVATION

Dimensions S and T₃ to be same as adjacent RCB. T₂ = Same as adjacent RCB (200 mm Min).

TYPE 'E' STEPPED WINGWALL (MULTIPLE BOX CULVERT)

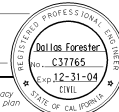
NOTES

1. Eliminate cutoff walls if adjacent channel is paved.
2. For "H" not shown use reinforcement for next greater height.

| TABLE OF REINFORCEMENT FOR TYPE 'E' WINGWALLS | | | | | | | | | | | | |
|---|------------------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| H (m) (See Note 2) | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 3.0 | 3.7 | 4.3 | | | |
| "k" Bars | Bar No. 13 | 13 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | | | |
| "k" Bars | Spacing (mm) | 300 | 300 | 300 | 250 | 225 | 200 | 175 | 125 | | | |
| "L" Bars | Bar No. 16 | 16 | 19 | 19 | 22 | 22 | 22 | 22 | 22 | | | |
| "L" Bars | Number each wall | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | | | |



| | | | | |
|--|--------|-------|------------------------------|------------------------|
| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET TOTAL NO. SHEETS |
| July 1, 2004 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. To get to the Caltrans web site, go to: http://www.dot.ca.gov | | | | |



BOX CULVERT WINGWALLS TYPES D AND E

NO SCALE
 ALL DIMENSIONS ARE IN
 MILLIMETERS UNLESS OTHERWISE SHOWN

D85